

Table F-9. Environmental Data for A- and M-Area Waste Sites

Waste site	Areal extent of site (m)	Distance to nearest wetland (m)	Area of wetlands within 200 m/1000 m (acres)	Endangered species data	Non-PATHRAE-modeled groundwater contaminants exceeding ^a freshwater biota criteria			Area of ground-water outcrop; distance (m) to outcrop	Dilution factor ^d
					Contaminant	Reported level ^b	Criterion ^c		
716-A motor shop seepage basin (904-101G) ^e	63.1 x 10.7	800	0/2.2	No endangered species or suitable habitats observed within vicinity	pH Chromium Copper Mercury Lead Zinc	4.6 0.055 0.0093 0.0005 0.012 0.069	6.5-9.0 0.011 0.00017 0.000012 0.000017 0.047	Tims Branch; 914	No information
Metals burning pit (731-4A) ^f	120 x 120	Over 1,000	0/0	No endangered species or suitable habitats observed within vicinity	pH Silver Cadmium Copper Iron Mercury Lead Zinc	4.33 0.0011 0.014 0.026 8.0 0.0003 0.017 0.23	6.5-9.0 0.00014 0.00024 0.0022 1.0 0.000012 0.0026 0.047	Savannah River; 4,000	2.86×10^{-6}
Silverton Road waste site (731-3A) ^g	212 x 62	Over 1,000	0/0	No endangered species or suitable habitats observed within vicinity	pH Chromium Copper Mercury Nickel Zinc	4.4 0.009 0.017 0.073 0.05 6.6	6.5-9.0 0.00024 0.0022 0.000012 0.021 0.047	Savannah River; 3,200	6.04×10^{-6}
Metallurgical laboratory basin (904-310G) ^h	31 x 12	450	0/21.4	No endangered species or suitable habitats observed within vicinity	pH Silver Cadmium Copper Zinc Gross Alpha Gross Beta Radium	4.6 0.0016 0.006 0.026 0.22 74. 48.0 9.7	6.5-9.0 0.00014 0.00024 0.0022 0.047 15.0 42.0 5.0	Savannah River; 13,000	4.84×10^{-7}
Miscellaneous chemical basin (731-5A) ^f	6 x 6	Over 1,000	0/0	No endangered species or suitable habitats observed within vicinity	No data available		N/A	Tims Branch; 610	1.47×10^{-3}

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Table F-9. Environmental Data for A- and M-Area Waste Sites (continued)

Waste site	Areal extent of site (m)	Distance to nearest wetland (m)	Area of wetlands within 200 m/1000 m (acres)	Endangered species data	Non-PATHRAE-modeled groundwater contaminants exceeding a freshwater biota criteria ^a			Area of ground-water outcrop; distance (m) to outcrop	Dilution factor ^d
					Contaminant	Reported Level ^b	Criterion ^c		
A-Area burning/ rubble pit 731-A ⁱ	100 x 54.6	Over 1,000	0/0	No endangered species or suitable habitats observed within vicinity ^j	pH Copper Zinc	4.6 0.039 0.15	6.5-9.0 0.0022 0.047	Savannah River; 11,280 ^m	$1.52 \times 10^{-6}(\text{m})$
A-Area burning/ rubble pit 731-1A ⁱ	173.4 x 9.4	Over 1,000	0/0	No endangered species or suitable habitats observed within vicinity ^j	pH Copper Zinc	4.6 0.039 0.15	6.5-9.0 1.0022 0.047	Savannah River; 11,280 ^m	$1.52 \times 10^{-6}(\text{m})$
SRL seepage basin 904-53Gj	40.0 x 19.0	0	7.1/35.2	No endangered species or suitable habitats observed within vicinity	pH Iron Zinc Radium	4.2 11.8 0.16 5.4	6.5-9.0 1.0 0.047 5.0	Savannah River; 13,000	2.42×10^{-5}
SRL seepage basin 904-53Gj	40.0 x 40.0	0	7.1/35.2	No endangered species or suitable habitats observed within vicinity	pH Iron Zinc Radium	4.2 11.8 0.16 5.4	6.5-9.0 1.0 0.047 5.0	Savannah River; 13,000	2.42×10^{-5}
SRL seepage basin 904-54Gj	53.0 x 38	0	7.1/35.2	No endangered species or suitable habitats observed within 200 m of vicinity	pH Iron Zinc Radium	4.2 11.8 0.16 5.4	6.5-9.0 1.0 0.047 5.0	Savannah River; 13,000	2.42×10^{-5}
SRL seepage basin 904-55Gj	94.0 x 46.0	0	7.1/35.2	No endangered species or suitable habitats observed within vicinity	pH Iron Zinc Radium	4.2 11.8 0.16 5.4	6.5-9.0 1.0 0.047 5.0	Savannah River; 13,000	2.42×10^{-5}

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Table F-9. Environmental Data for A- and M-Area Waste Sites (continued)

Waste site	Areal extent of site (m)	Distance to nearest wetland (m)	Area of wetlands within 200 m/1000 m (acres)	Endangered species data	Non-PATHRAE-modeled groundwater contaminants exceeding a freshwater biota criteria			Area of ground-water outcrop; distance (m) to outcrop	Dilution factor ^d
					Contaminant	Reported level ^b	Criterion ^c		
M-Area settling basin (904-51G) ^k	100 x 85	200	0.2/2.0	No endangered species or critical habitats observed within vicinity, except 1 alligator which has lived in the basin since 1985.	pH Gross alpha Gross beta Radium	4.1 21. 86. 22.	6.5-9.0 15.0 42.0 5.0	Upper Three Runs Creek 4000	3.65×10^{-4}
Lost Lake (904-112G) ^k	10-25 acres	100	2.0/No data	No endangered species or critical habitats observed within vicinity, except as noted for 904-51G	pH Gross alpha Gross beta Radium	4.1 21. 86. 22.	6.5-9.0 15.0 42.0 5.0	Upper Three Runs Creek 4000	3.65×10^{-4}

^aConcentrations reported as milligrams per liter for chemicals and picocuries per liter for radionuclides.^bAverage value for groundwater well containing highest concentration.^cBased on ICRP, 1979; EPA, 1985b,c, 1986; DOI, 1968.^dEquivalent to groundwater flux divided by flow rate of receiving stream.^eData from Huber, Johnson, and Bledsoe, 1987, except as otherwise indicated.^fData from Pickett, Muska, and Marine, 1987, except as otherwise indicated.^gData from Scott, Killian, Kolb, Corbo, and Bledsoe, 1987, except as otherwise indicated.^hData from Michael, Johnson, and Bledsoe, 1987, except as otherwise indicated.ⁱData from Huber, Johnson, and Marine, 1987, except as otherwise indicated.^jData from Fowler et al., 1987, except as otherwise indicated.^kData from Pickett, Colven, and Bledsoe, 1987, except as otherwise indicated.^lData on the area not given in site specific reference; however, based on other nearby waste sites, endangered species or suitable habitat are not expected.^mCalculation based on groundwater flux for C-Area burning/rubble pit.